BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION

YELAHANKA ZONE

WARD NO:07 BYATARAYANAPURA

Name of work: Improvements to drains of mainroads of navyanagara in ward No.07 Byatarayanapura

Estimated Cost:- 51.00 Lakhs

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S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.143.Item No.19.1)								
	7th Cross		2	150.00	0.90	0.90	243.00		
	Cross road		2	100.00	0.90	0.90	162.00		
	Culverts		9	6.00	2.00	1.19	128.52		
	Rain water units		20	(3.14*1.5*1.5)/4		3.00	105.98		
	over burden earth		18	5.00	0.90	1.00	81.00		
					TOTAL		**720.50**	137.80	99285.00
	Basic Rate:	cum	**130.00**						
	Area Weightage @ 6%		7.80						
	Total		**137.80**						
2	KSRB M2100-10: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration inlcuding curing for 14 days including cost of all materials labour, HOM curing, form works, scaffolding and centering complete as per specification . (Pg.No.222, It.27.18)								
	RCC DRAIN-BOTTOM								
	7th Cross		2.00	150.00	0.80	0.15	36.00		
	Cross road		2.00	100.00	0.80	0.15	24.00		
	Culverts		9.00	6.00	2.00	0.15	16.20		
					TOTAL		**76.20**	5421.90	413149.00
	Basic Rate:	cum	5115.00						
	Area Weightage @ 6%		306.90						
	Total		5421.90						
3	Providing and laying Plain/Reinforcement cement concrete M20 with OPC @ 320 kgs with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregates @ 0.46cum, with super plastisicer @3lts confirming to IS9103-1999 Reaffirmed-2008 in open foundation complete as per drawing andtechincal specifications including cost of all materials, labour HOM curing, form works, scaffolding and centering complete as per specifications.(Pg No.222, It No.27.27)								
	Culverts		9	6.00	0.60	0.15	4.86		
	coping		18	6.00	0.60	0.10	6.48		
	RCC Drain								

	Bottom								
	7th Cross		2.00	150.00	0.60	0.15	27.00		
	Cross road		2.00	100.00	0.60	0.15	18.00		
	Side Wall								
	7th Cross	**2x2**	4	150.00	0.15	0.45	40.50		
	Cross road	**2x2**	4	100.00	0.15	0.45	27.00		
					TOTAL		**123.84**	5148.42	637580.33
	Basic Rate:	cum	4857.00						
	Area Weightage @ 6%		291.42						
	Total		5148.42						
4	KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-25. Item No. 5.3)								
	Culvert		18	6.00	0.60	0.90	58.32		
					TOTAL		**58.32**	4871.76	284121.04
	Basic Rate:	cum	4596.00						
	Area Weightage @ 6%		275.76						
	Total		4871.76						
5	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 115 / Item No. 15.4 / PWD SR 2018-19								
	Culvert		18	6.00		0.90	97.20		
					TOTAL		**97.20**	148.40	14424.48
	Basic Rate:	sqm	140.00						
	Area Weightage @ 6%		8.40						
	Total		148.40						
6	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specificationsTMT Fe500.(Page No. Item No.28.8.2)								
	Reinforcement for side wall						112.50		
			At 55 Kg % per cum				**6.19**	72326.98	447524.00
	Basic Rate:	Tonne	68233.00						
	Area Weightage @ 6%		4093.98						
	Total		72326.98						

7	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	SIDE WALL								
	7th Cross	2x4	8	150.00		0.45	540.00		
	Cross road	2x4	8	100.00		0.45	360.00		
							900.00	483.36	435024.00
	Basic Rate:	Sqm	456.00						
	Area Weightage @ 6%		27.36						
	Total		483.36						
8	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)								
	DETA RATE	**Sqm**							
	Covering Slab								
	7th Cross		500		0.60	0.75	225.00		
	Cross road		357		0.60	0.75	160.65		
							385.65	2337.00	901264.05
9	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	Culvert		90	1.80	0.60		162.00		
					TOTAL		**162.00**	5418.00	877716.00
10	KSRRB M2900-2.1. Laying Reinforced cement concrete pipe NP2 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia MORTH Specification No. 1000,2300 Page No. 255, Item No. 34.7.8, PWD SR 2018-19								
			20	3.00	--	--	60.00		
					TOTAL		**60.00**	5976.28	**358576.80**
	Basic Rate:	mtr	5638.00						
	Area Weightage @ 6%		338.28						
	Total		5976.28						
11	Providing 100mm and down size nominal size. (Pg No.I.Item No.23)								
	For Pit		20	0.28		1.20	6.75		

	(3.14x0.6*0.6)/4	Cum			**TOTAL**	**6.75**	987.62	**6666.44**
12	Providing 40mm and down size nominal size (Pg No.II.Item No.25)							
	For Pit		20	0.28	0.40	2.26		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**	**2.26**	1091.43	**2466.63**
13	Providing 20mm and down size nominal size (Pg No.II.Item No.28)							
	For Pit		20	0.28	0.40	2.26		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**	**2.26**	1091.43	**2466.63**
14	Providing Fine aggrgate 2.36mm nominal size (Pg No.II.Item No.32)							
	For Pit		20	0.28	0.30	1.70		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**	**1.70**	1054.29	**1792.29**
15	Providing and fixing MS Grating 260x260 mm(Page No.1X, Sl No.234, code No.0771)							
			30			30.00	89.75	
					TOTAL	**30.00**	89.84	2695.05
	Basic Rate:	Nos	84.75					
	Area Weightage @ 6%		5.09					
	Total		89.84					
16	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 136, item No. 17.1)							
	Basic Rate	cum	**57.00**			720.50	94.34	67972.00
	Rs. 2.50 Tonne Km.							
	Average Weight of earth 1.28 Tonne/Km.							
	For 10 Km							
	Rs.2.50X1.28TonneX10K		**32.00**					
	Total		**89.00**					
	Add Area Weightage6%		**5.34**					
			94.34					
17						**Sub Total**		4552723.75
18						**Add 12% GST charges**		546326.85
19						**Miscelleneous charges**		949.40
20						**Total**		5100000.00

Technically sanctioned for Rs. 51,00,000
Rs in Words FIFTY ONE LAKH only
Under P 3602
Job Code No. 007 20 000095
Registered as SE(Y)/TS/ 26 /19-20 subject to conditions contained in enclosed memo No. 26 /19-20 Dated: 17/01/2020
SE(Yelahanka) 17/01/2020
AE/JE

ADMINISTRATIVE APPROVAL
Accorded For Rs. 51.00 Lacs
Head of A/c P 3602
Div. Ref. No. 96/19-20 Date 17/01/20

1)This is certified that the work spot comes under BBMP limits only.
2) The work spot is inspected by me
3) The items Provided in the Estimate are quite Essential
4)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

AE

EE(BTP)

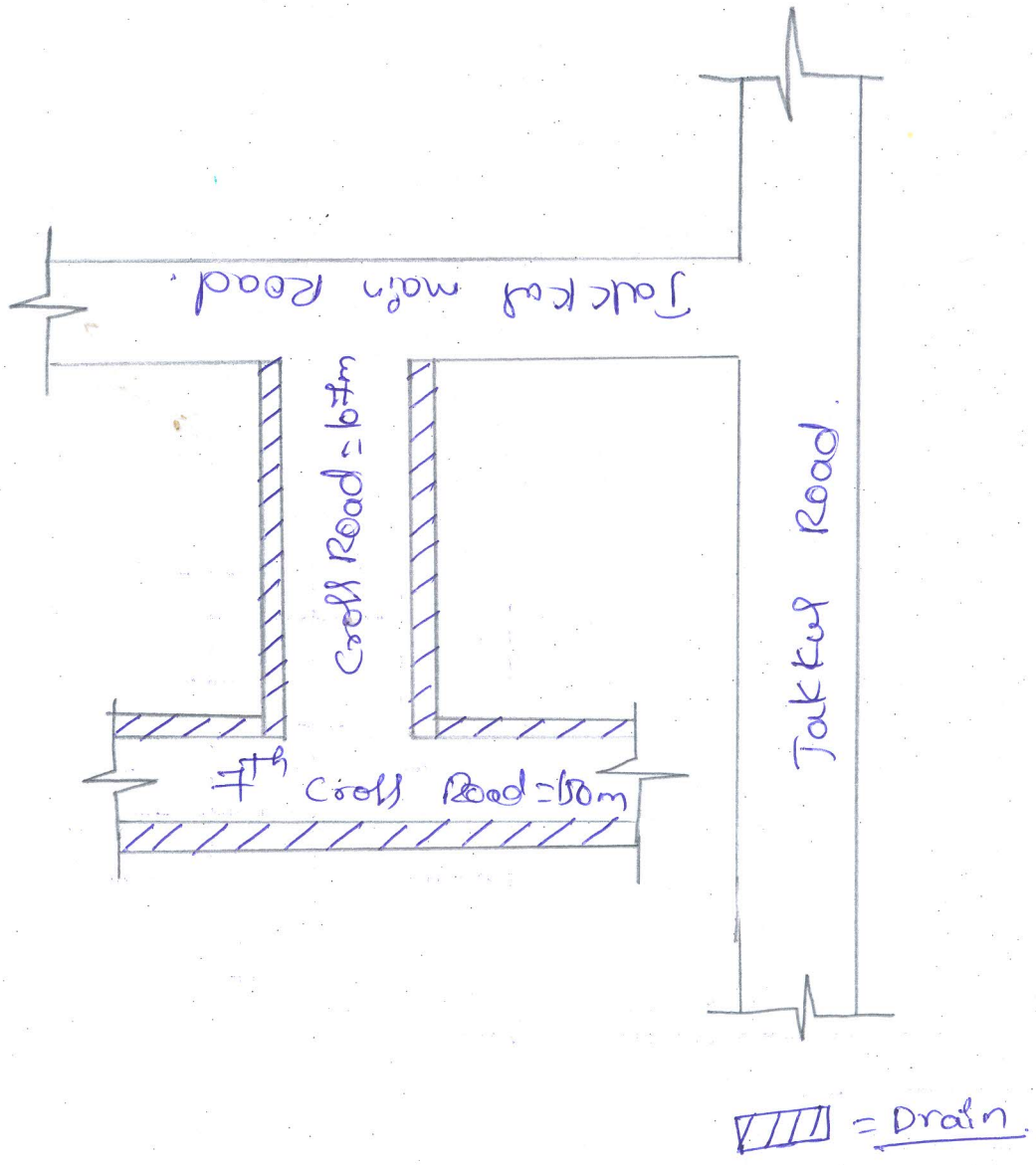
Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division

Executive Engineer
Byatrayanapura Division

44
63
63
29
05
2.00
23.75
26.85
.40
00.00

Name of work:- Improvements to drains of Mainroads of Navyanagara in ward no.7, Byatarayanapura



▨ = Drain

Abhilash.N.D

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092